

FIG. 1

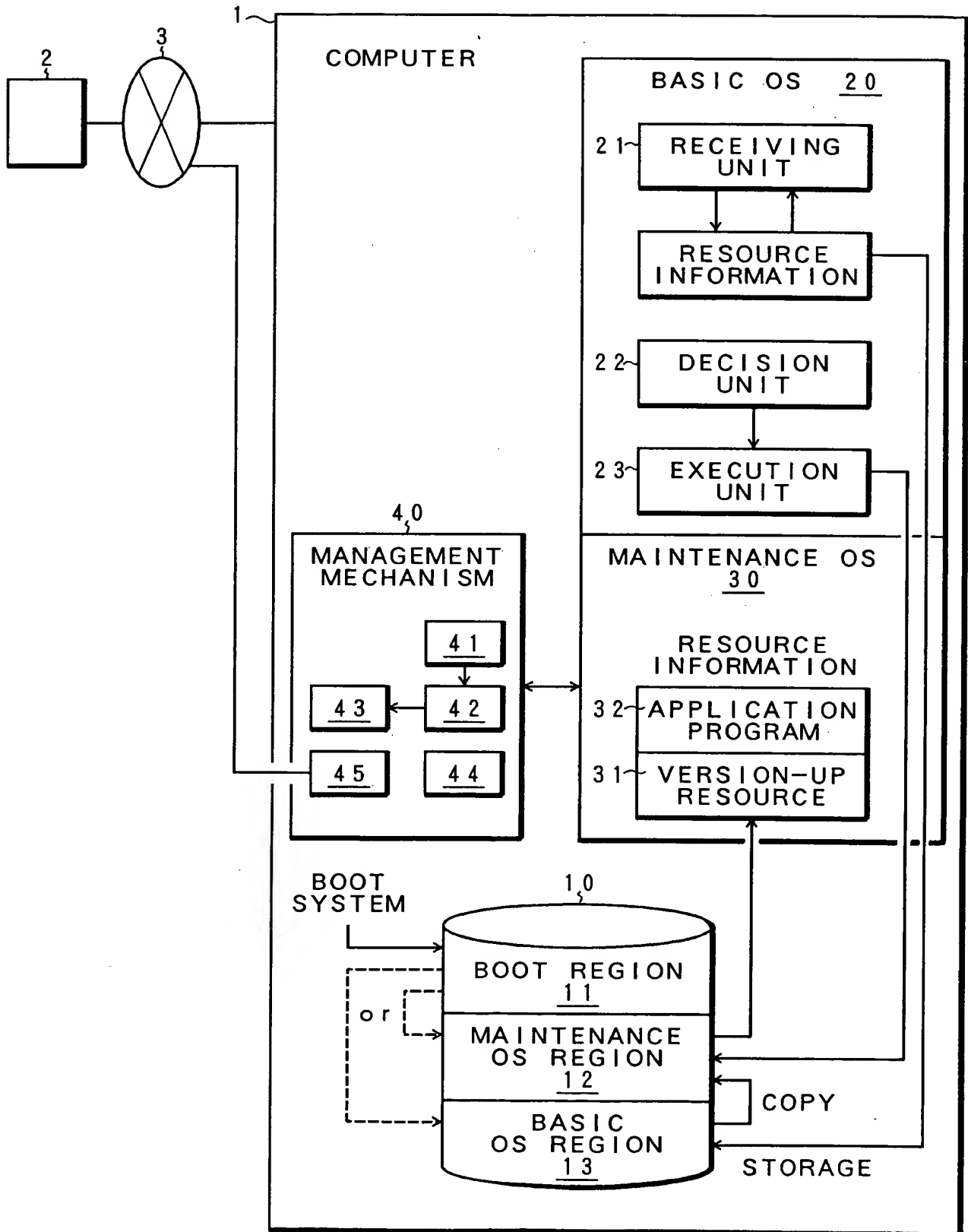
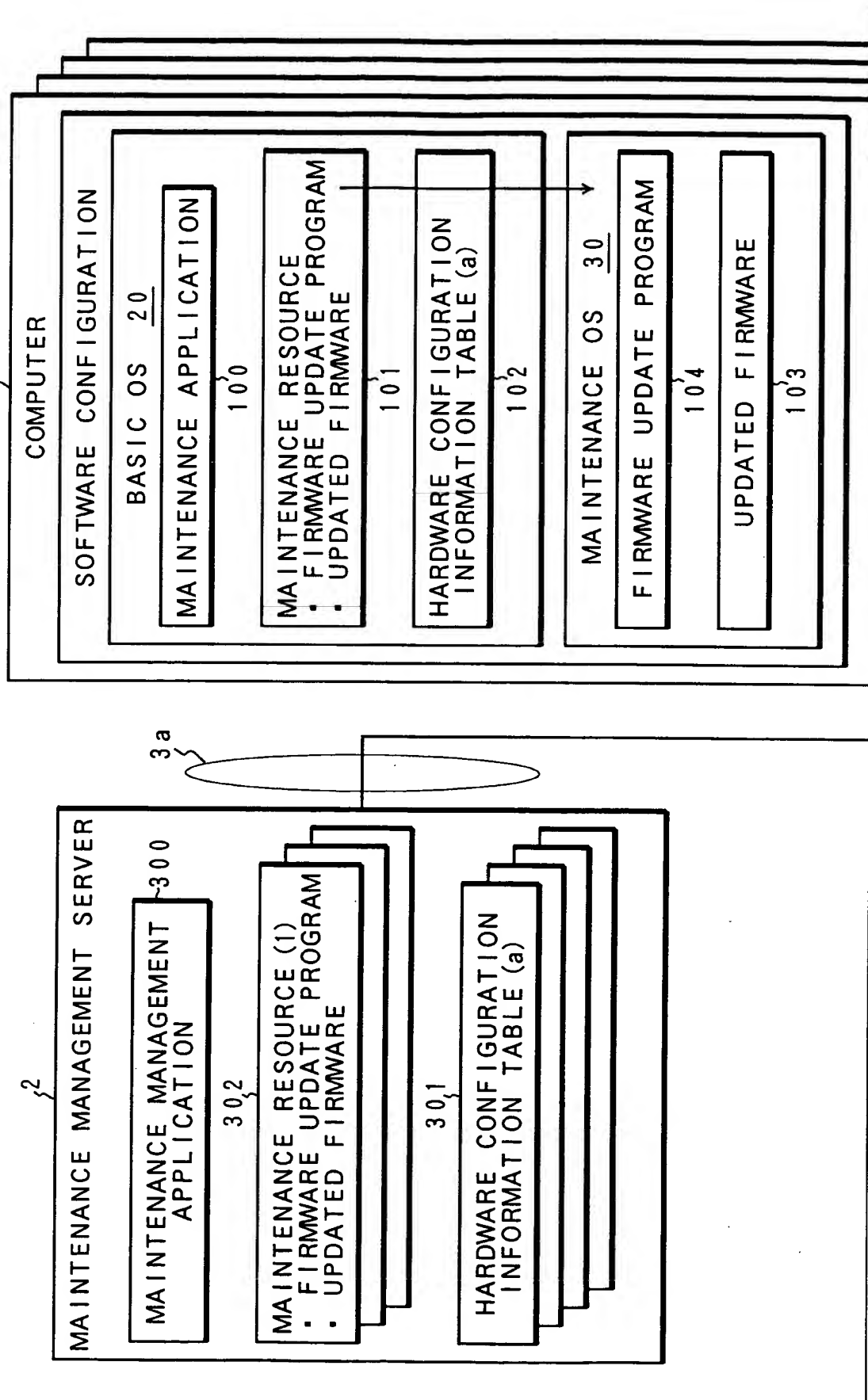
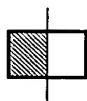


FIG. 2A



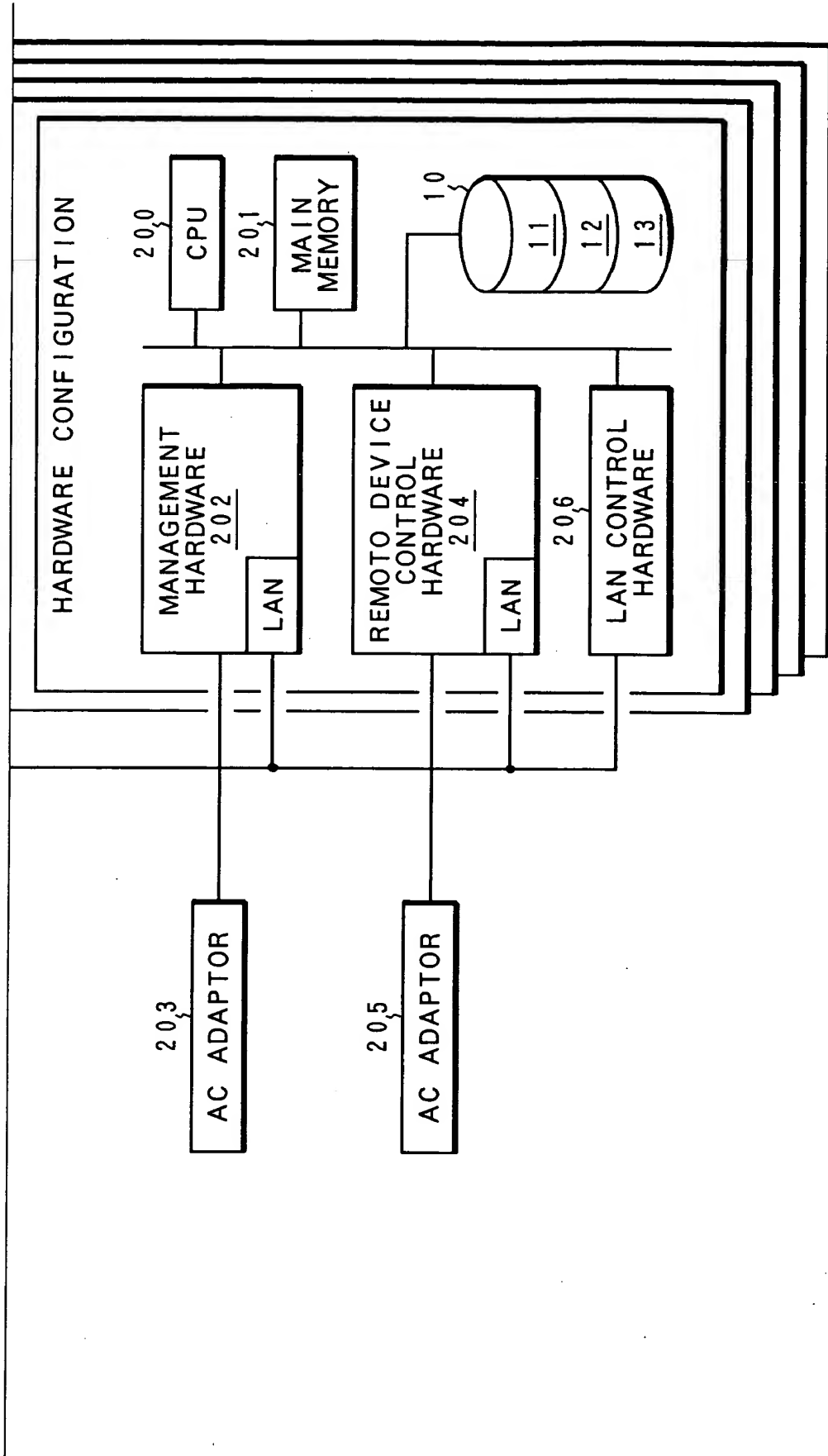
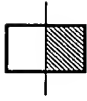


FIG. 3A

| |
|-------------------------|
| BOOT SECTOR (512 BYTE) |
| FILE ALLOCATION TABLE 1 |
| FILE ALLOCATION TABLE 2 |
| ROOT DIRECTORY |
| MAINTENANCE OS REGION |
| BASIC OS REGION |

FIG. 3B

| | |
|-------|----------------------------------|
| 0x000 | JMP INSTRUCTION |
| 0x003 | OEM IDENTIFICATION FIELD |
| 0x00B | BIOS PARAMETER BLOCK |
| 0x03C | BOOT STRAP LOADER |
| 0x1BE | PARTITION TABLE |
| 0x1FE | BOOT CERTIFICATION WORD (0xAA55) |

FIG. 3C

| | +0 | +1 | +2 | +3 | +4 | +5 | +6 | +7 | +8~+11 | +12~+15 |
|-------|----|----|----|----|----|----|----|----|--------|---------|
| 0x1BE | BI | H | S | C | SI | H | S | C | SP | N |
| 0x1CE | BI | H | S | C | SI | H | S | C | SP | N |
| 0x1DE | BI | H | S | C | SI | H | S | C | SP | N |
| 0x1EE | BI | H | S | C | SI | H | S | C | SP | N |

FIG. 4

| OFFSET | SIZE | SIGN | CONTENTS |
|---------|--------|-------|---|
| +0 | 1 BYTE | BI | BOOT INDICATOR 0x80 : ACTIVE PARTITION |
| +1~+3 | 3 BYTE | H/S/C | HEAD NUMBER/SECTOR NUMBER/CYLINDER NUMBER OF START POINT |
| +4 | 1 BYTE | SI | SYSTEM INDICATOR |
| +5~+7 | 3 BYTE | H/S/C | HEAD NUMBER/SECTOR NUMBER/CYLINDER NUMBER OF END POINT |
| +8~+11 | 4 BYTE | SP | THE NUMBER OF PREVIOUS PARTITION SECTORS |
| +12~+15 | 4 BYTE | N | THE NUMBER OF SELF-PARTITION SECTORS |

FIG. 5A

| | +0 BI | +1~+3 H/S/C | +4 SI | +5~+7 H/S/C | +8~+11 SP | +12~+15 N |
|-------|----------|----------------|----------|----------------|--------------|--------------|
| 0x1BE | 0x00 | 0xXXXXXX | 0x00 | 0xXXXXXX | 0xXXXXXX | 0xXXXXXX |
| 0x1CE | 0x80 | 0xXXXXXX | 0x00 | 0xXXXXXX | 0xXXXXXX | 0xXXXXXX |

FIG. 5B

| | +0 BI | +1~+3 H/S/C | +4 SI | +5~+7 H/S/C | +8~+11 SP | +12~+15 N |
|-------|----------|----------------|----------|----------------|--------------|--------------|
| 0x1BE | 0x80 | 0xXXXXXX | 0x00 | 0xXXXXXX | 0xXXXXXX | 0xXXXXXX |
| 0x1CE | 0x00 | 0xXXXXXX | 0x00 | 0xXXXXXX | 0xXXXXXX | 0xXXXXXX |

FIG. 6A

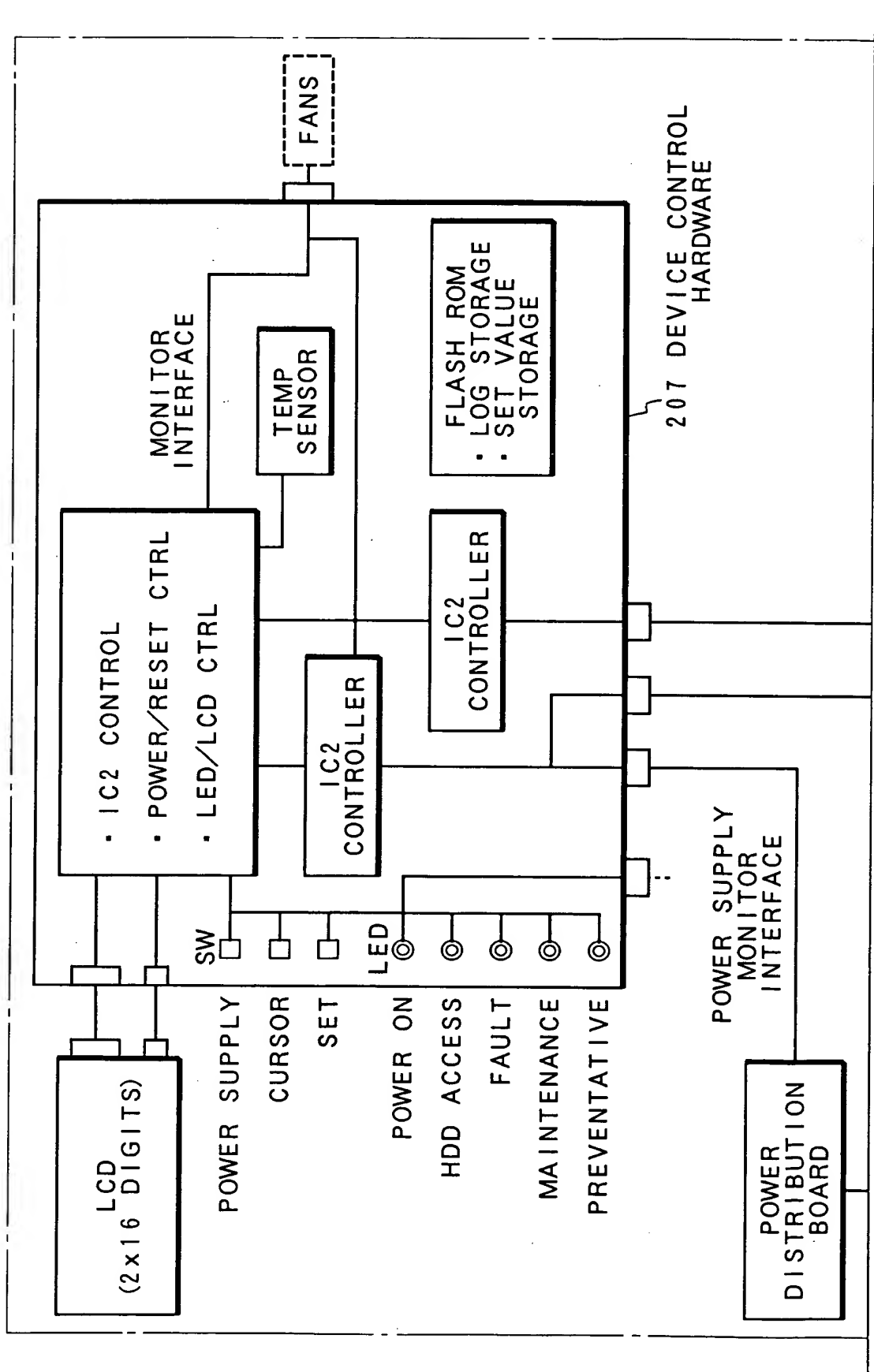


FIG. 6B

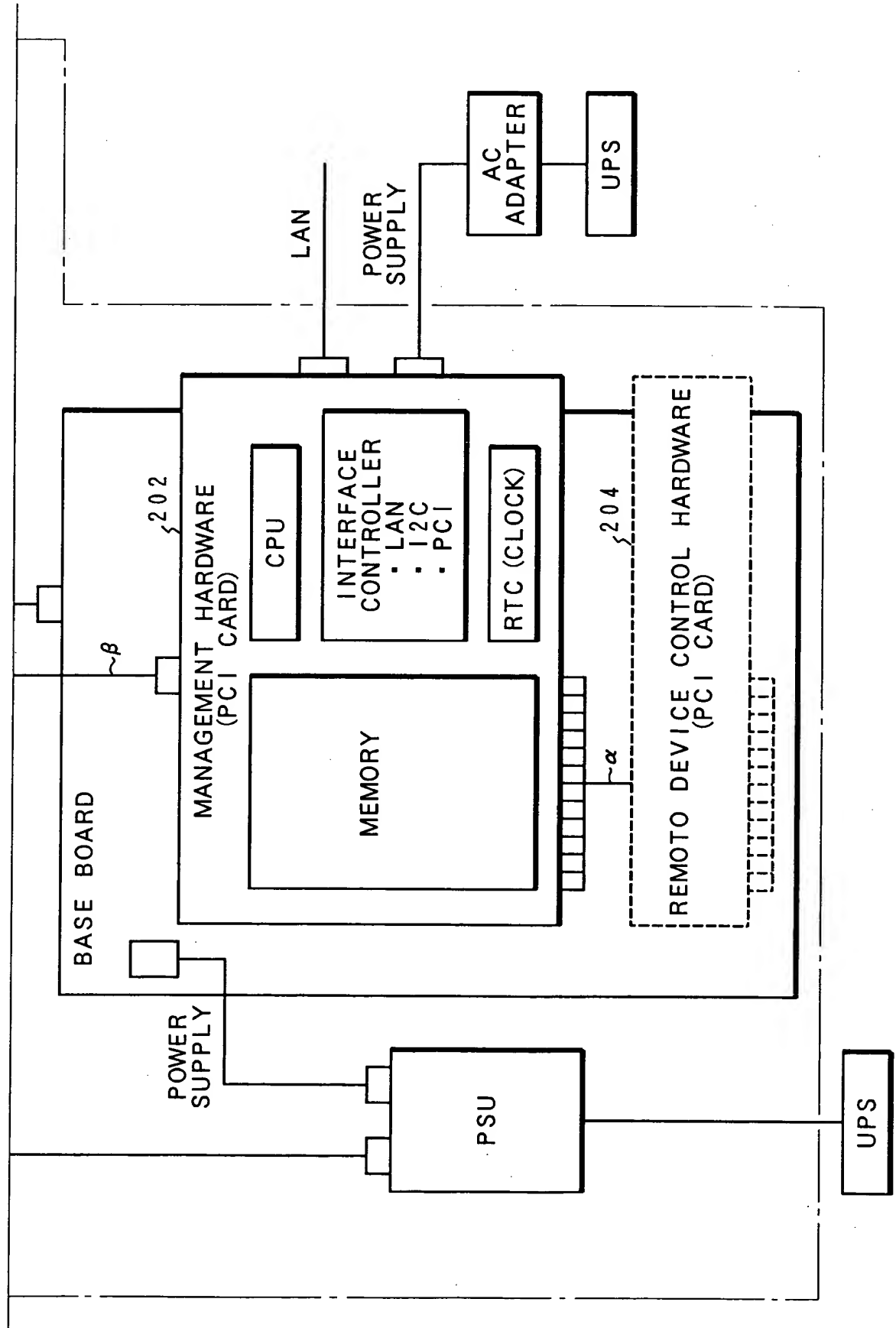


FIG. 7

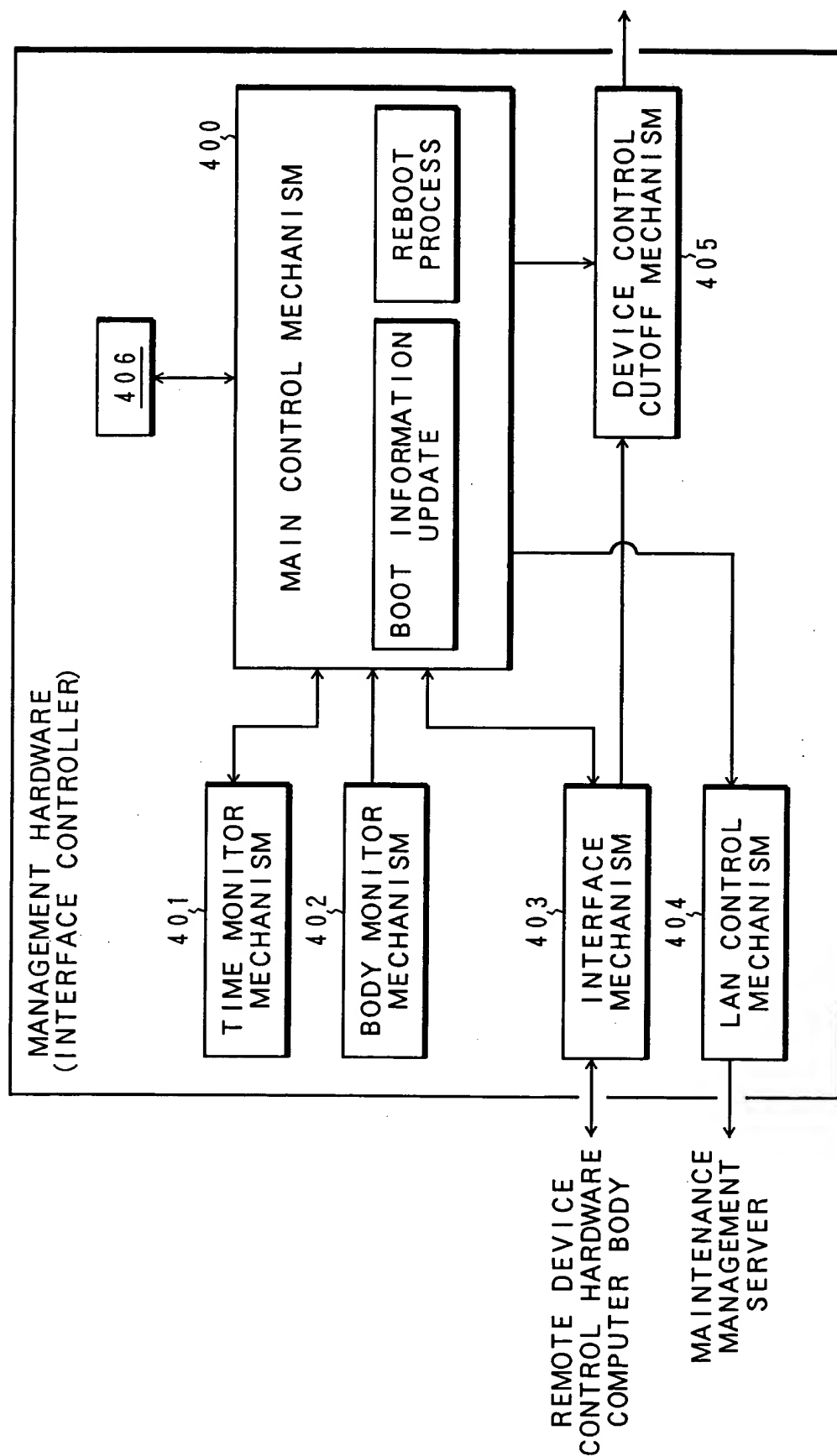
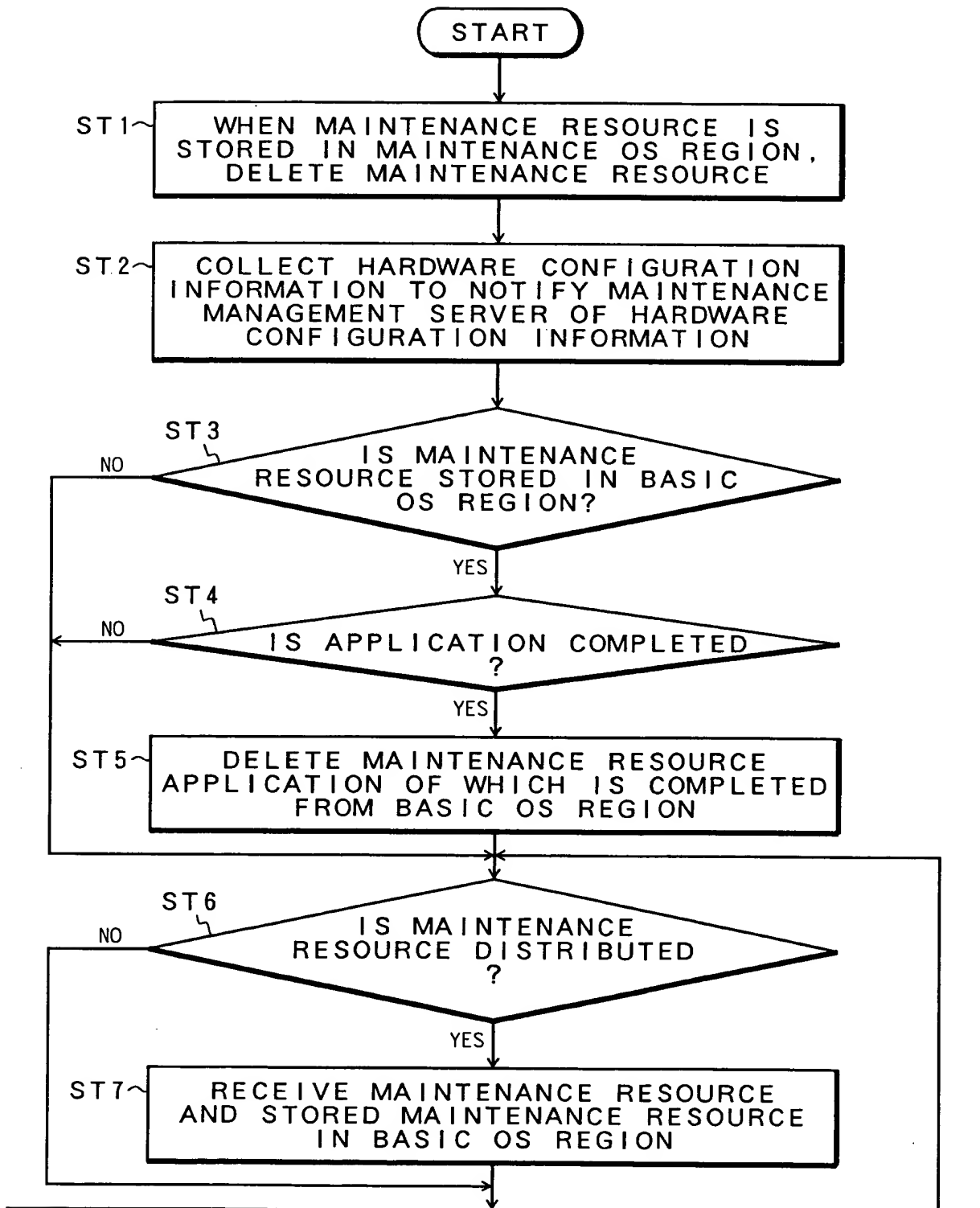


FIG. 8A



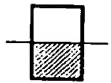
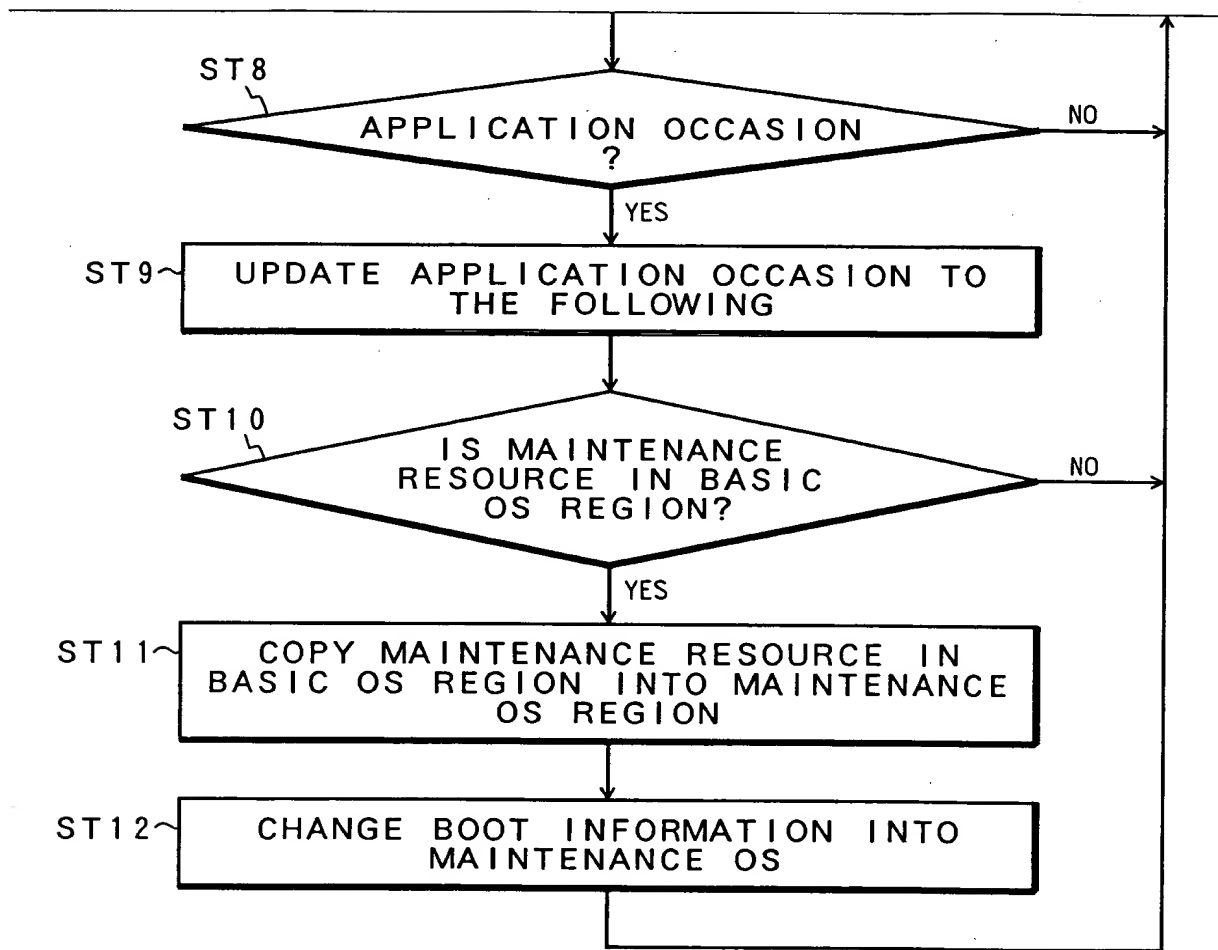


FIG. 8B



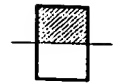
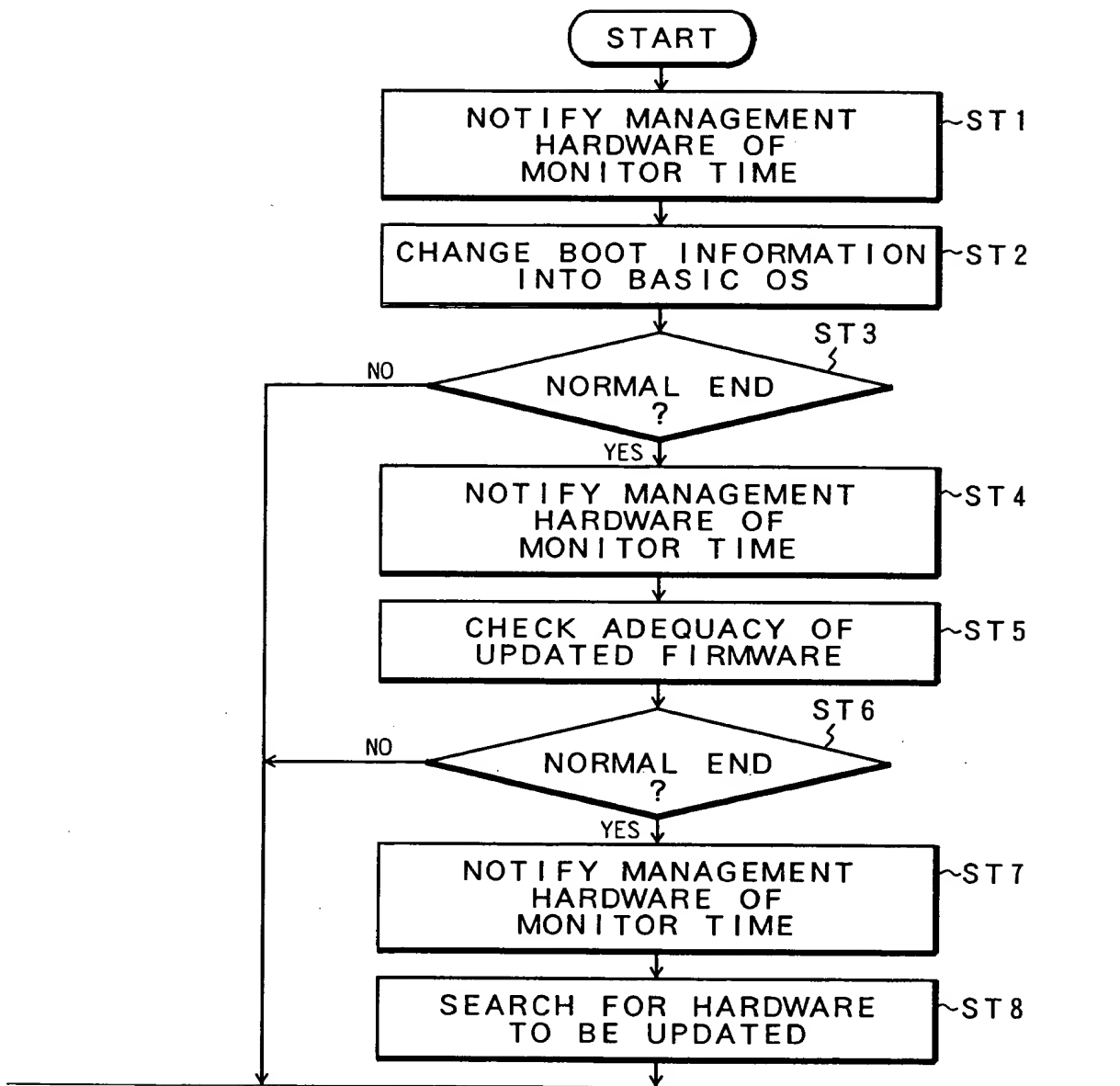


FIG. 9A



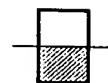
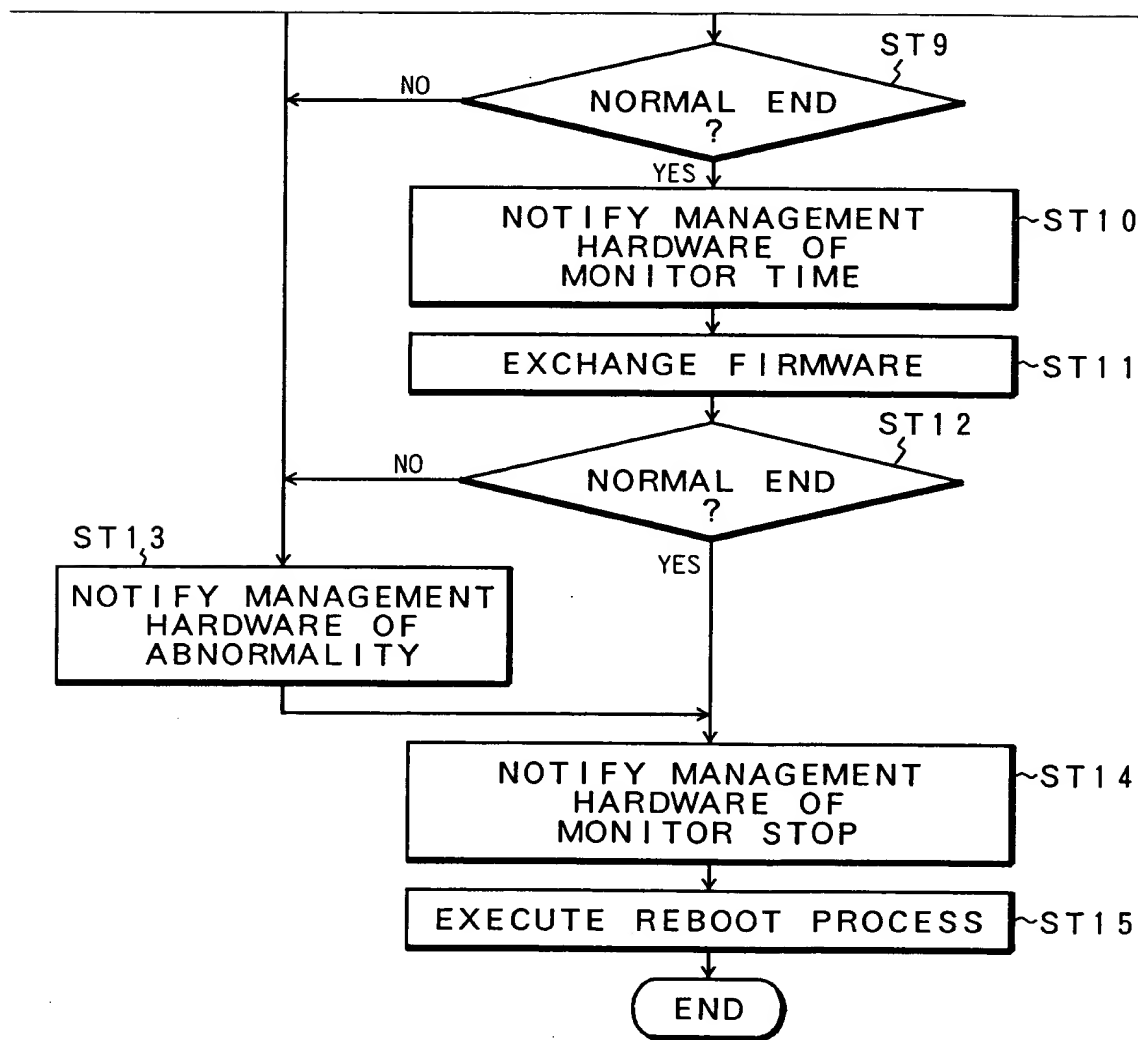


FIG. 9B



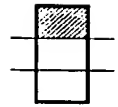
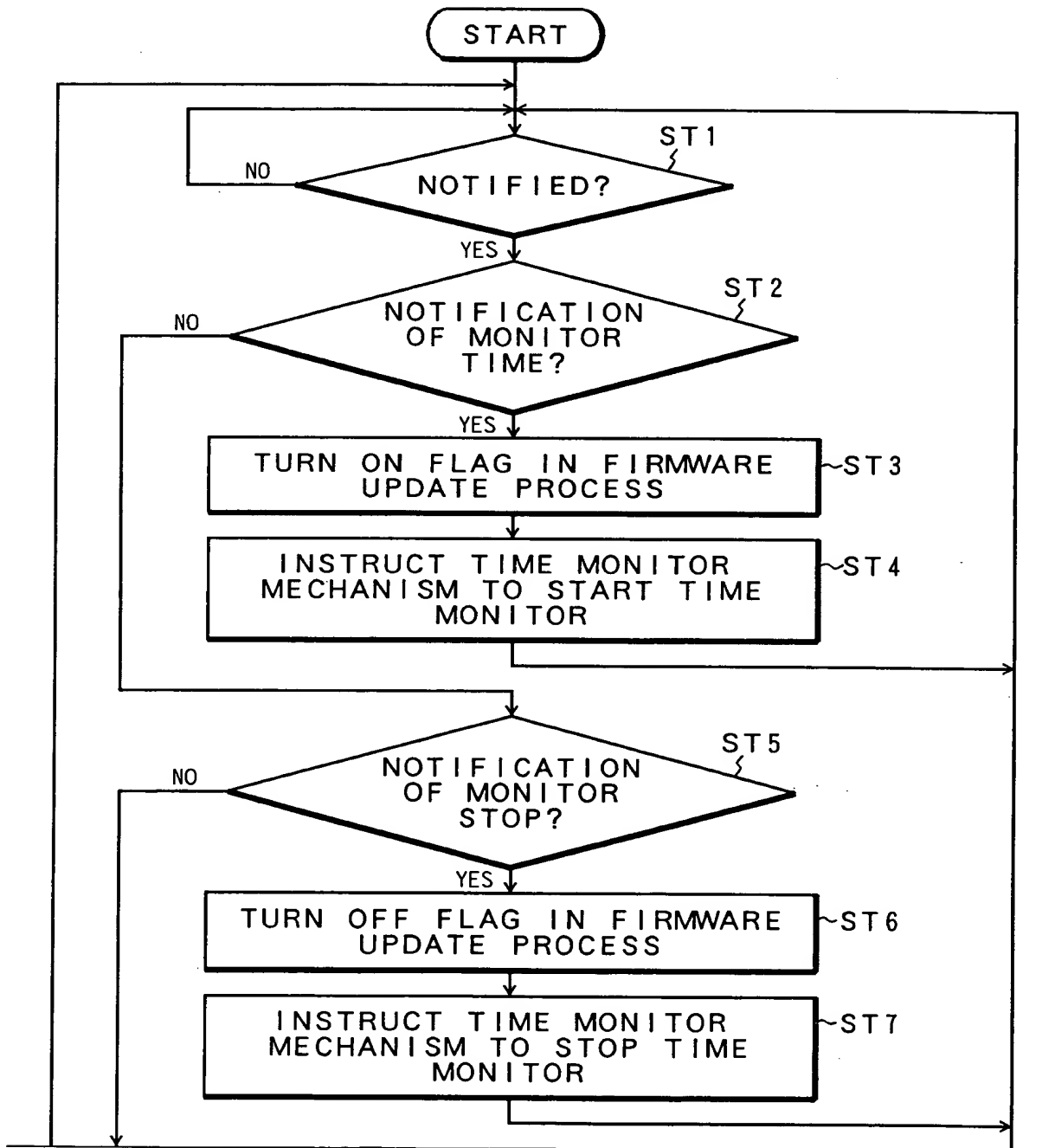


FIG. 10A



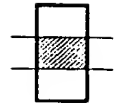
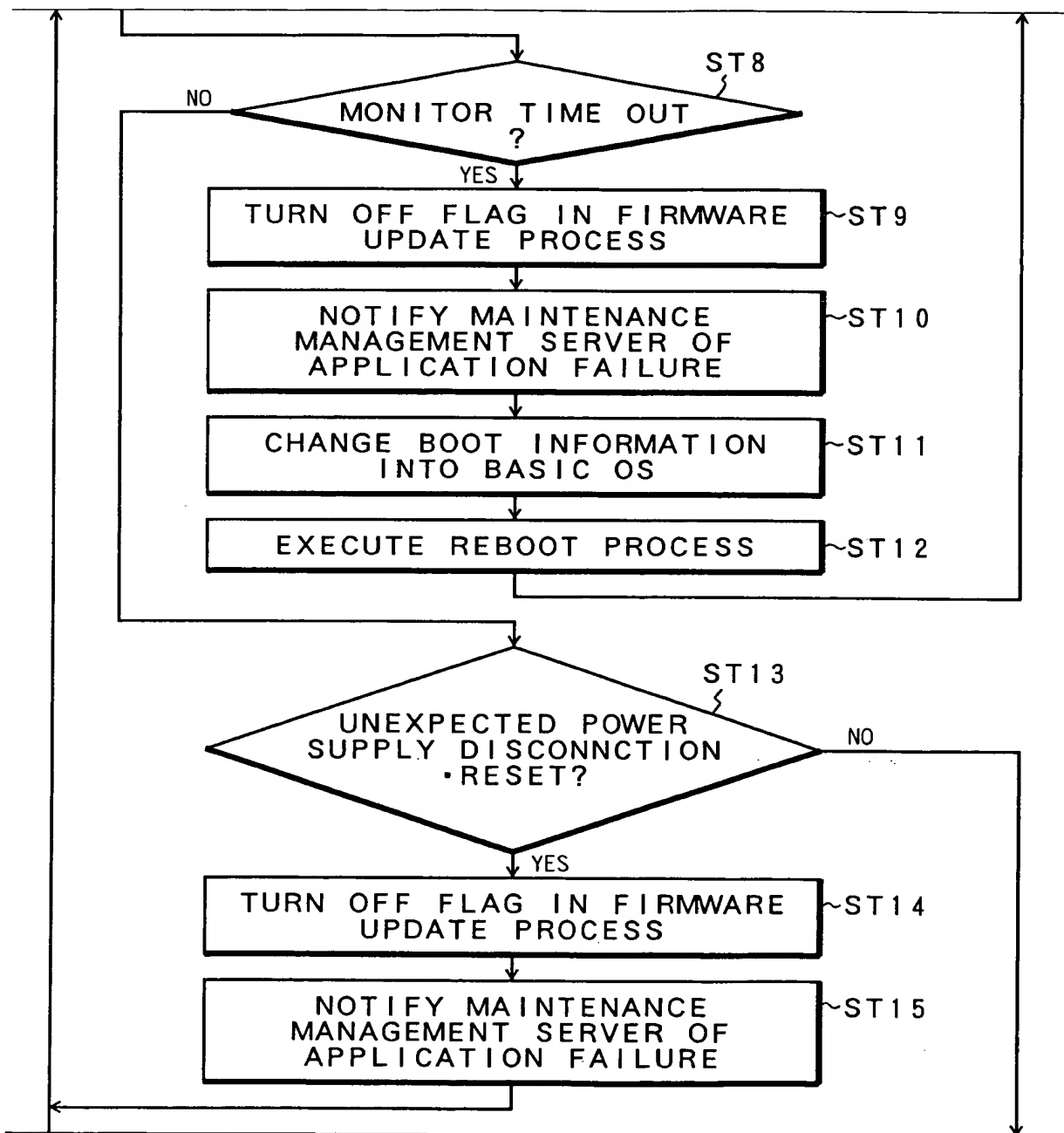


FIG. 10B



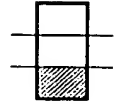
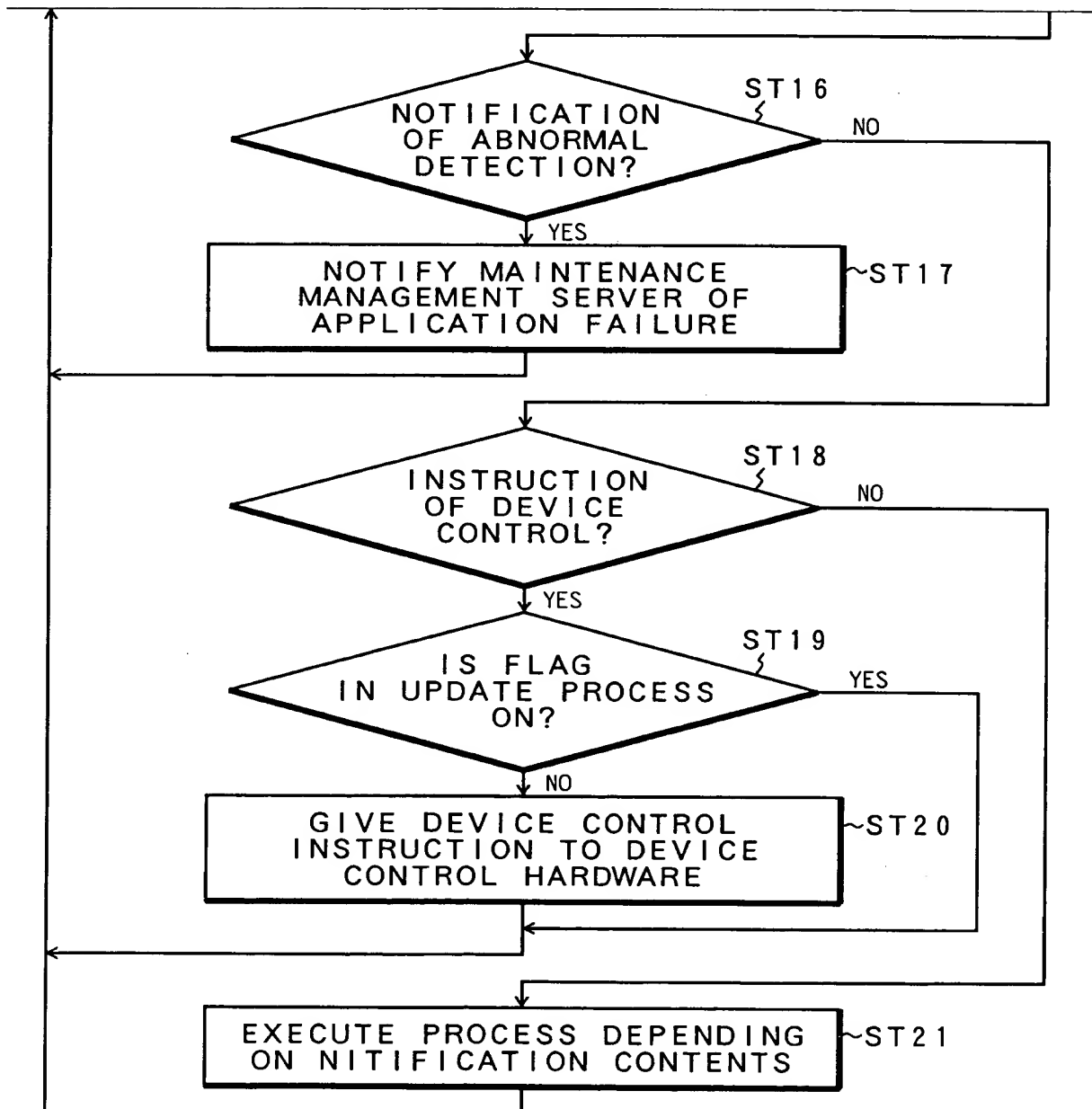


FIG. 10C



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FIG. 11A

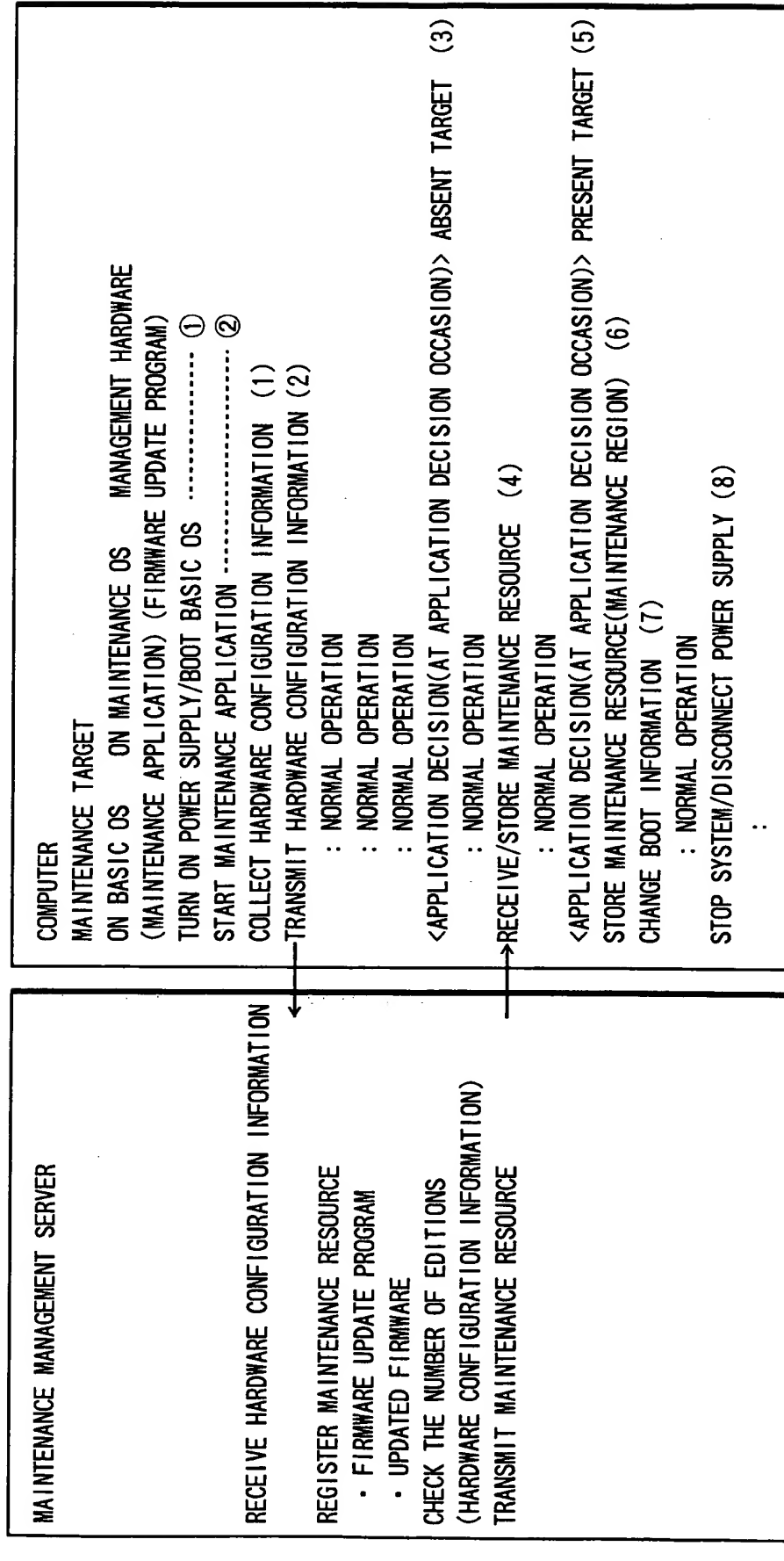




FIG. 1B

```

TURN ON POWER SUPPLY/BOOT MAINTENANCE OS ..... ③
START UPDATE PROGRAM ..... ④
(10) NOTIFY TIME MONITOR → RECEIVE TIME MONITOR
      START MONITOR
(11) RESTORE BOOT INFORMATION
(12) NOTIFY TIME MONITOR → RECEIVE TIME MONITOR
      START MONITOR
(13) CHECK ADEQUACY OF UPDATE FIRMWARE
(14) NOTIFY TIME MONITOR → RECEIVE TIME MONITOR
      START MONITOR
(15) SEARCH FOR HARDWARE TO BE UPDATED
(16) NOTIFY TIME MONITOR → RECEIVE TIME MONITOR
      START MONITOR
(17) FIRMWARE UPDATE PROCESS
(18) NOTIFY MONITOR STOP → RECEIVE MONITOR STOP
      STOP MONITOR
(19) REBOOT
BOOT BASIC OS ..... ⑤
START MAINTENANCE APPLICATION ..... ⑥

```




FIG. 12B

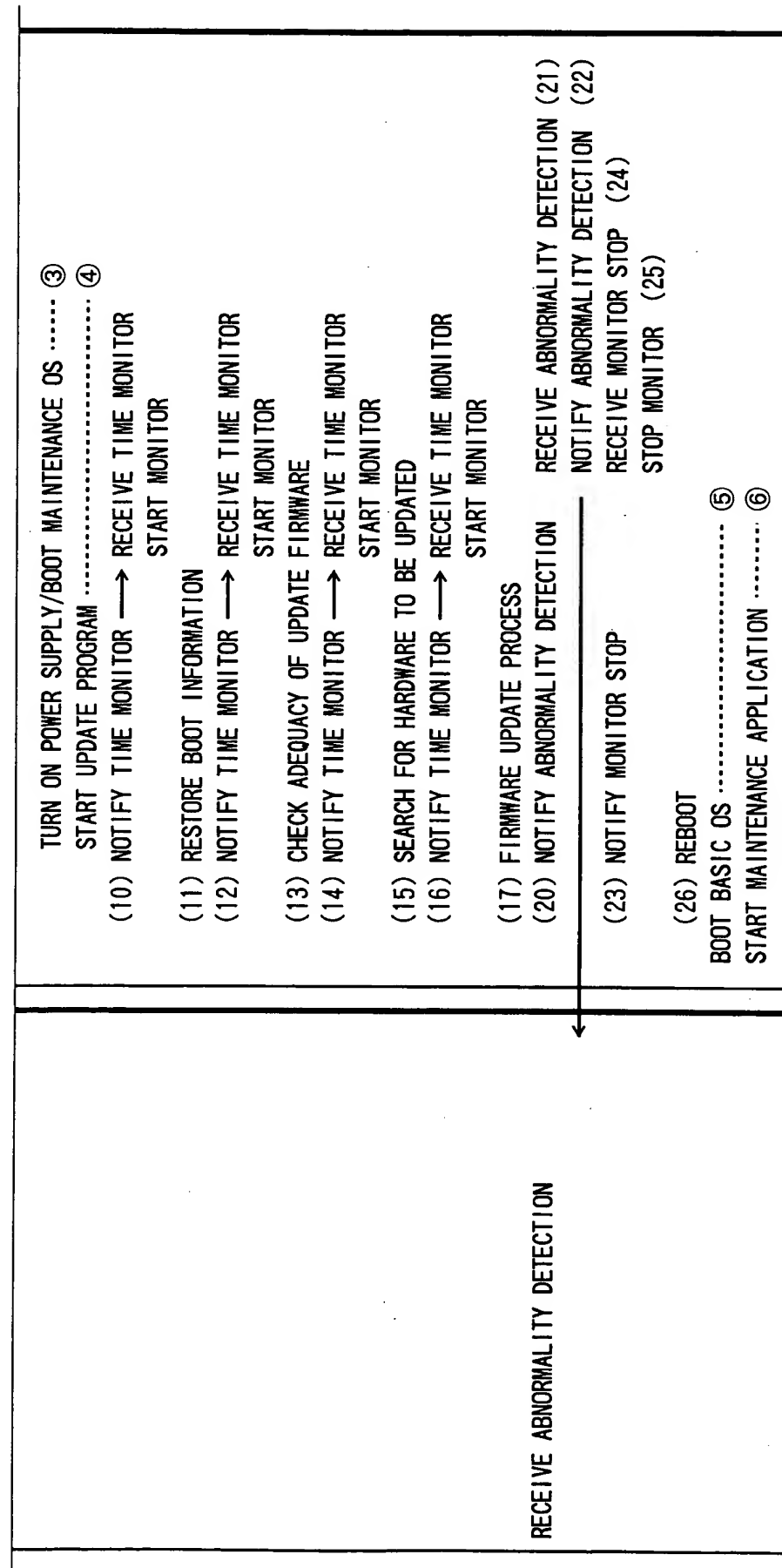




FIG. 13A

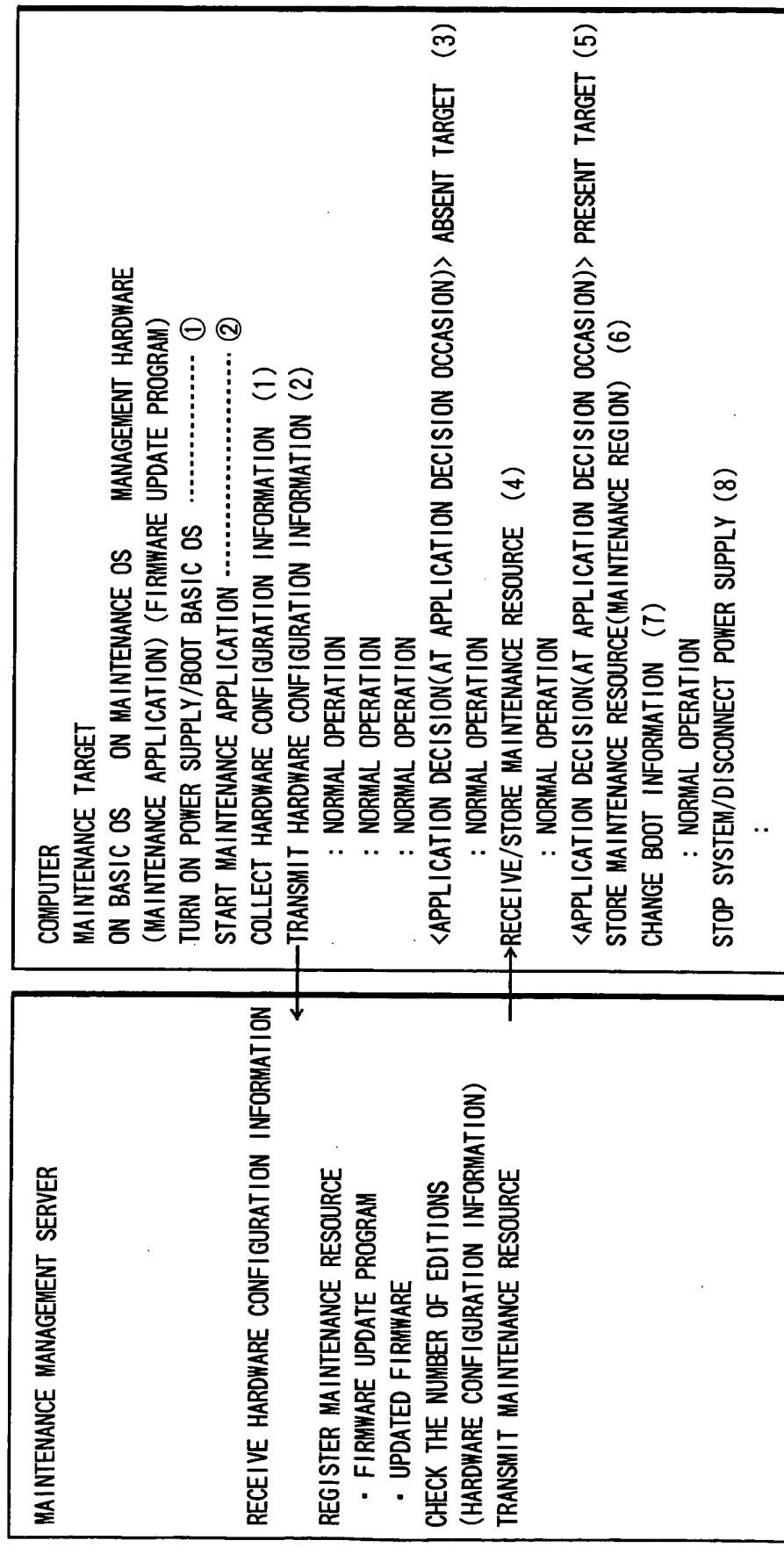




FIG. 13B

